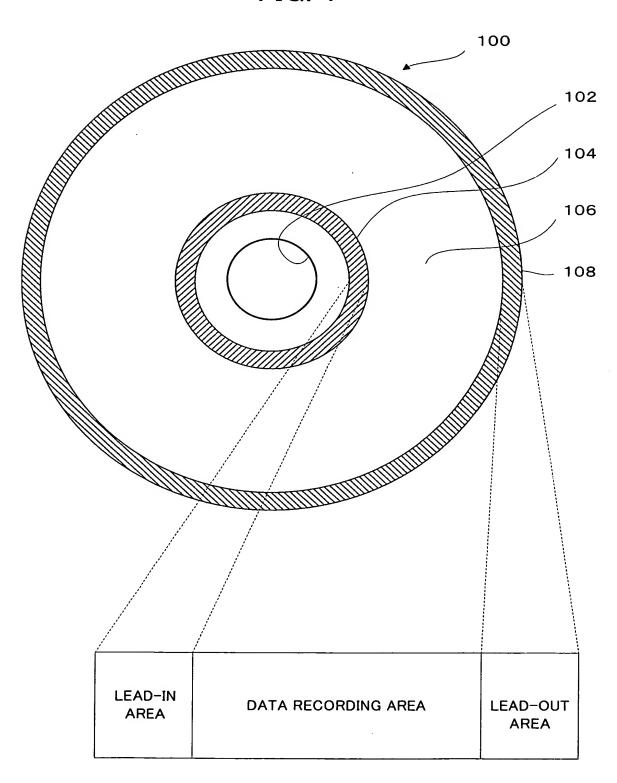
DOCKET NO.: 8048-1135
INVENTOR: NOBUYUKI TAKAKUWA, ET AL.
FILING DATE: DECEMBER 29, 2005
TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD,
INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION RECORDING/REPRODUCTION DEVICE AND METHOD,
COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL

1/34

. ,

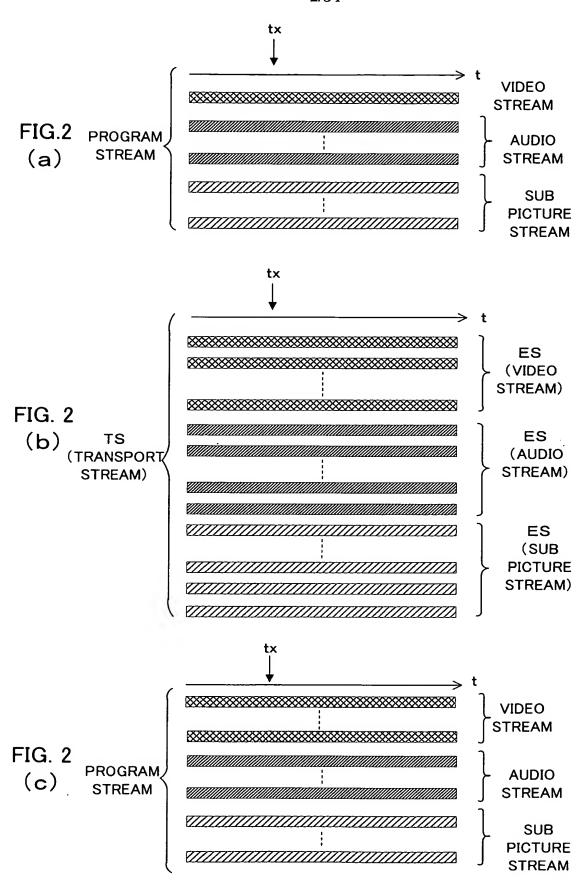
FIG. 1

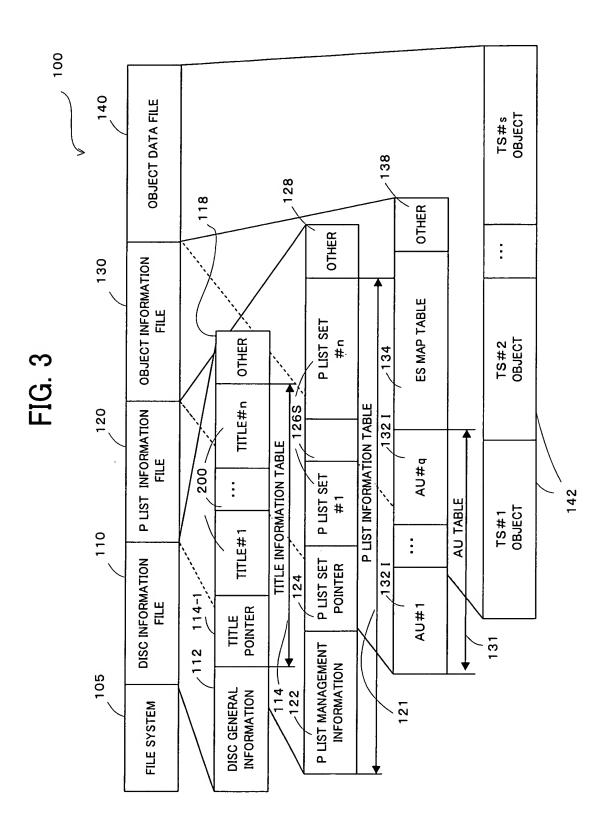


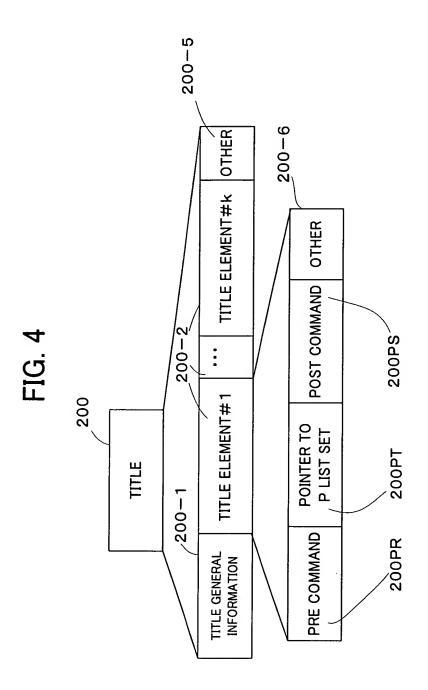
DOCKET NO.: 8048-1135 INVENTOR: NOBLYUKI TAKAKUWA, ET AL.

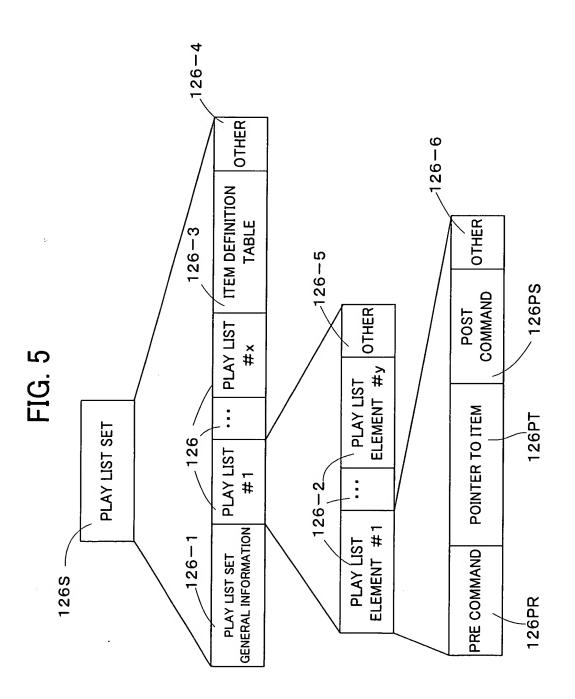
FILING DATE: DECEMBER 29, 2005

TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD,
INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION RECORDING/REPRODUCTION DEVICE AND METHOD,
COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL









DOCKET NO.: 8048-1135
INVENTOR: NOBLIVIAL TAKAKUWA, ET AL.
FILING DATE: DECEMBER 29, 2005
TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD,
INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION RECORDING/REPRODUCTION DEVICE AND METHOD,
COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL

FIG. 6

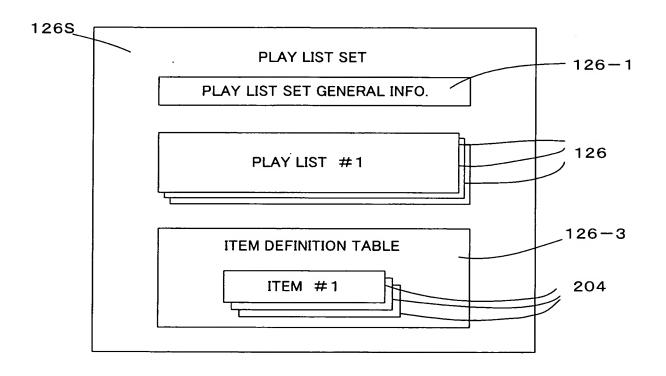
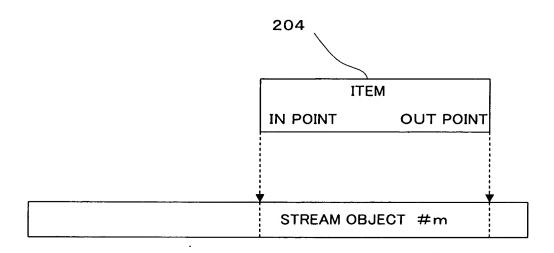


FIG. 7

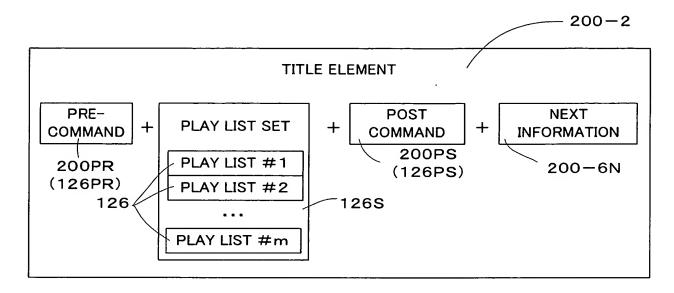


DOCKET NO.: 8048-1135

!NVENTOR: NOBUYUKI TAKAKUWA, ET AL.
FILING DATE: DECEMBER 29, 2005

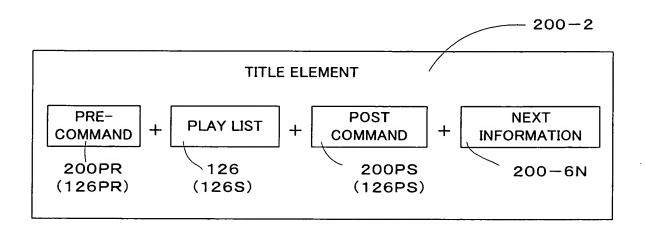
TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD,
INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION RECORDING/REPRODUCTION DEVICE AND METHOD,
COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL

FIG. 8

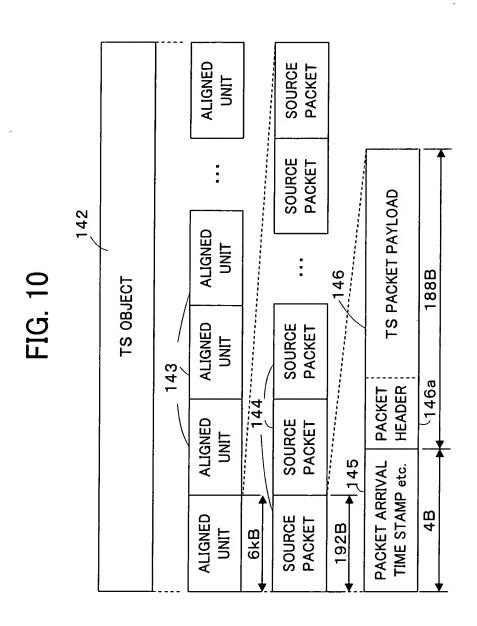


TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD, INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION REPRODUCTION DEVICE AND METHOD, COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL

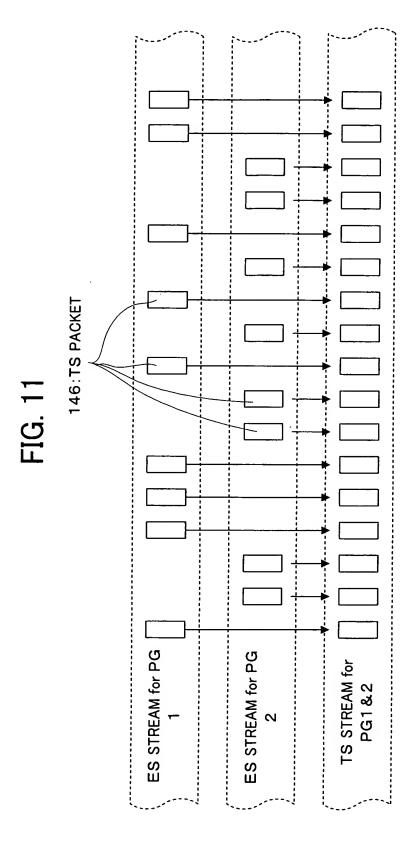
FIG. 9



10/34



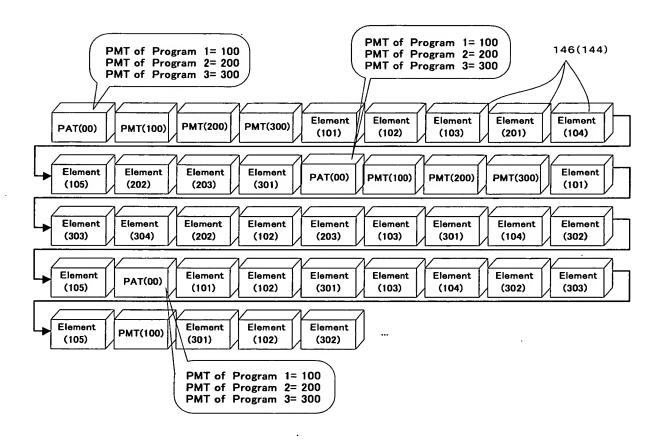
11/34



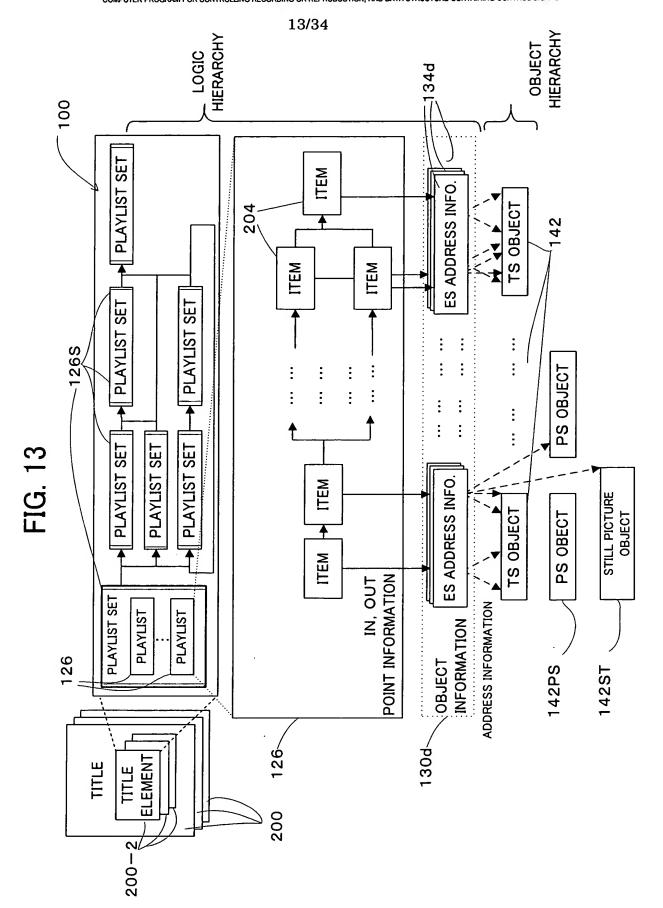
TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD, INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION RECORDING/REPRODUCTION DEVICE AND METHOD, COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL

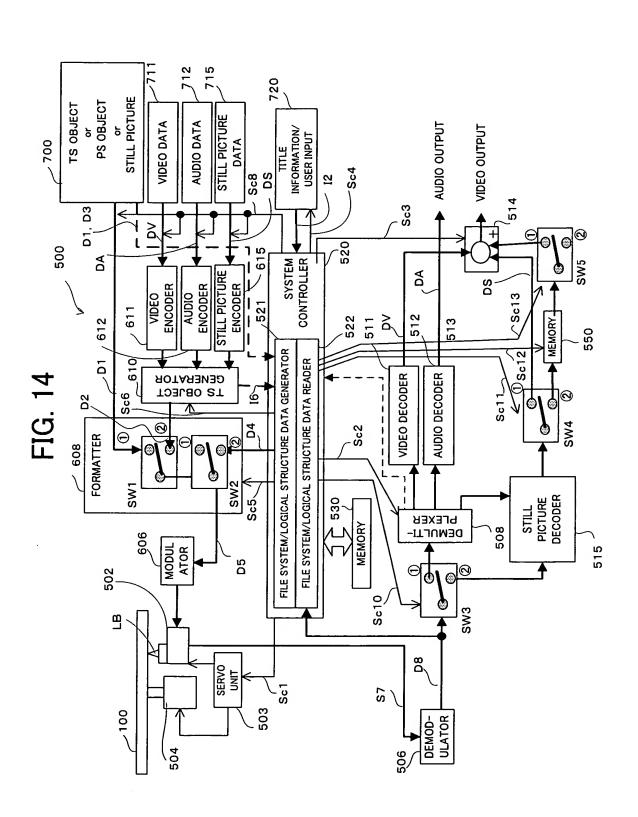
12/34

FIG. 12



DOCKET NO.: 8048-1135
INVENTOR: NOBLYUKI TAKAKUWA, ET AL.
FILING DATE: DECEMBER 29, 2005
TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD,
INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION RECORDING/REPRODUCTION DEVICE AND METHOD,
COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL





DOCKET NO.: 8048-1135
INVENTOR: NOBLYLKI TAKAKUWA, ET AL.
FILING DATE: DECEMBER 29, 2005
TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD,
INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION RECORDING/REPRODUCTION DEVICE AND METHOD,
COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL

FIG. 15

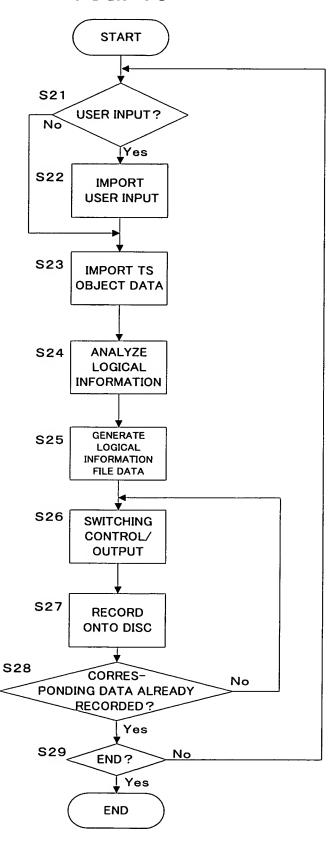
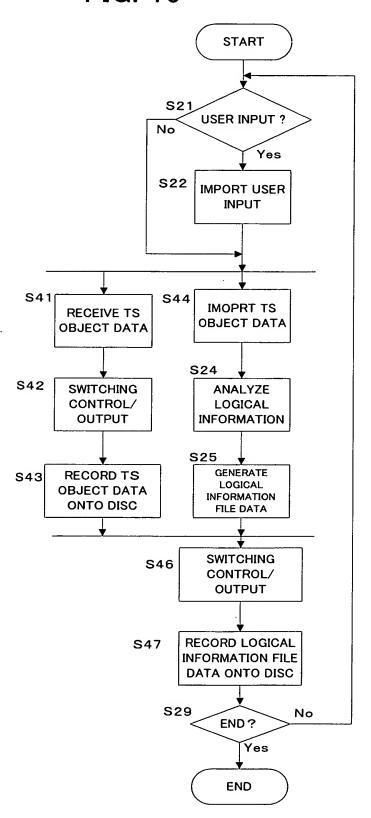
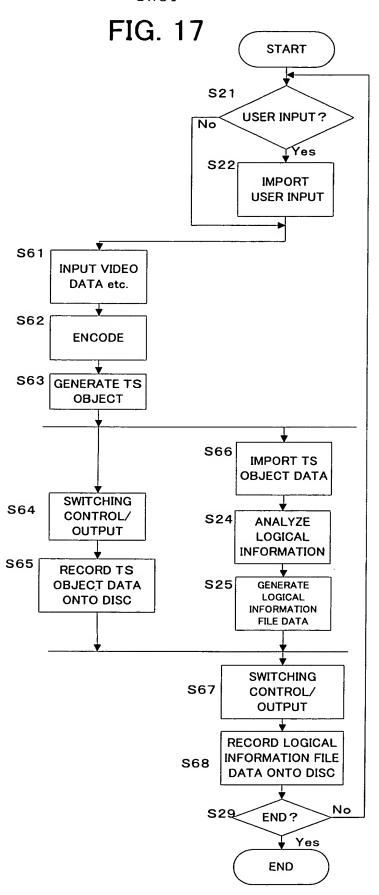


FIG. 16

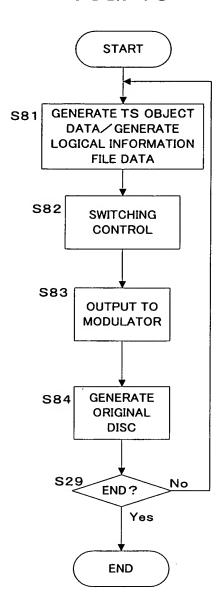


TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD, INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION REPRODUCTION DEVICE AND METHOD, COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL

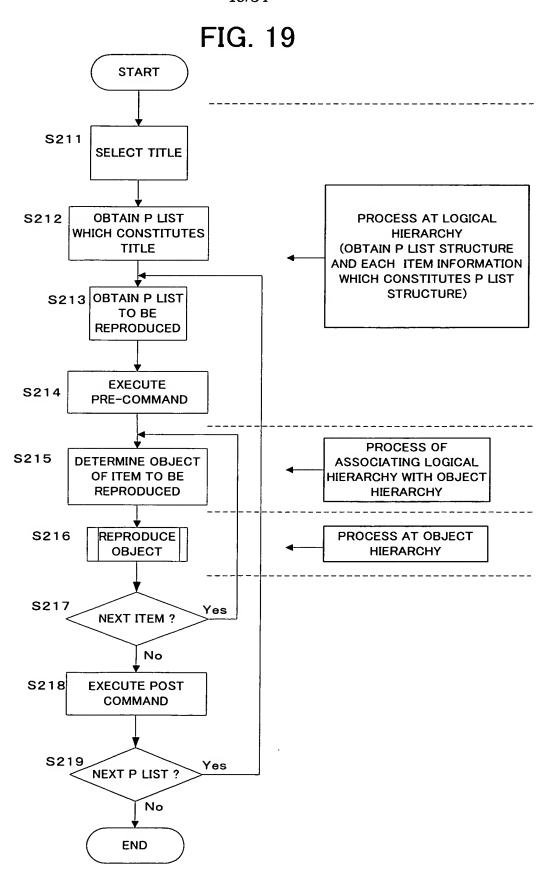


DOCKET NO.: 8048-1135
INVENTOR: NOBLYUKI TAKAKUWA, ET AL.
FILING DATE: DECEMBER 29, 2005
TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD,
INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION RECORDING/REPRODUCTION DEVICE AND METHOD,
COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL

FIG. 18



TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD, INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION RECORDING/REPRODUCTION DEVICE AND METHOD, COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL



DOCKET NO.: 8048-1135
INVENTOR: NOBLYUKI TAKAKUWA, ET AL.
FILING DATE: DECEMBER 29, 2005
TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD,
INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION RECORDING/REPRODUCTION DEVICE AND METHOD,
COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL

20 /34

FIG. 20(a)

header	Size, Display Position etc. of Background Image etc.
Background Image Data	Image Data

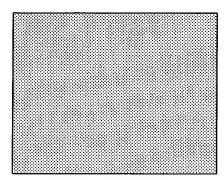
_{3 O 1} FIG. 20(b)

header	Quantity of Button	Pages, Quantity	y of Button Images, etc.			
Button Pag		Button #1	Button Image No.			
Info.			Display Position			
	3 0 1 p		Near-by Button Info.			
	3 U 1 p		Button Command			
		Button #x	Button Image No.			
			Display Position			
			Near by Button Info.			
			Button Command			
	• • •					
	Button Page #m	Button #1	Button Image No.			
			Display Position			
	3 0 1 p	•	Near-by Button Info.			
	301p		Button Command			
		• • •				
		Button #y	Button Image No.			
			Display Position			
			Near-by Button Info.			
			Button Command			
Button Image	Button Image Data	Button Image Data #1				
	• • •					
	Button Image Data # n .					

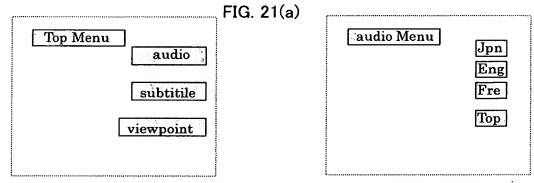
DOCKET NO.: 8048-1135 INVENTOR: NOBLYUKI TAKAKUWA, ET AL. FILING DATE: DECEMBER 29, 2005

TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD, INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION REPRODUCTION DEVICE AND METHOD, COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL

21/34

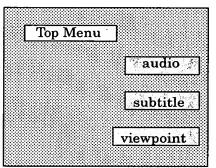


Background Image



Button Page #1

FIG. 21(b)



Button Page #2

FIG. 21(c)

Display on Screen

FIG. 21(d)

DOCKET NO.: 8048-1135
INVENTOR: NOBLYCKI TAKAKUWA, ET AL.
FILING DATE: DECEMBER 29, 2005
TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD,
INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION RECORDING/REPRODUCTION DEVICE AND METHOD,
COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL

22/34

FIG. 22 301

						
header	der Quantity of Button Pages=2, Quantity of Button Images=9, etc.					
Button	Page	Button	Page	Button #1	Button Image No. = #1	
Info.		#1			Display Position	
		1 \			Near-by Button Info. = None	
		1 ~ 1			Button Command = None	
		301	р	Button #2	Button Image No. = #2	
/					Display Position	
/	,	1			Near-by Button Info. = Bottom: Button#3	
/	/				Button Command = Display Button Page#2J	
l /				Button #3	Button Image No. = #3	
/				†	Display Position	
1 /					Near-by Button Info. =Top:Button#2, Bottom:Button#4	
ΙΙ,	/	[Button Command	
				Button #4	Button Image No. = #4	
1 (Display Position	
					Near-by Button Info. =Top:Button#3	
>					Button Command	
\	×	Button	Page	Button #1	Button Image No. = #5	
\		#2 \			Display Position	
\				Near-by Button Info. = None		
\	\	30-	1_		Button Command = None	
		301p	ıp	Button #2	Button Image No. = #6	
					Display Position	
	\				Near-by Button Info. =Bottom:Button#3	
		\land			Button Command = Set Audio to Japanese J	
				Button #3	Button Image No. = #7	
					Display Position	
					Near-by Button Info. =Top:Button#2, Bottom:Button#4	
					Button Command=FSet Audio to English」	
				Button #4	Button Image No. = #8	
			N		Display Position	
			Near-by Button Info. =Top:Button#3, Bottom:Button#5			
					Button Command=「Set Audio to French」	
			[Button #5	Button Image No. = #9	
					Display Position	
					Near-by Button Info. =Top:Button#4	
					Button Command=「Display Button Page#1」	
Button Im	- 1				Data of 「Top Menu」	
	L	Button Image Data #2 =Image Data of 「Audio」				
		Button Image Data #3 =Image Data of 「Subtitle」				
		Button Image Data#4 =Image Data of 「View point」				
	L	Button Image Data #5 =Image Data of 「Audio Menu」				
	Ł	Button Image Data#6 =Image Data of 「Japanese」				
	ſ	Button Image Data #7 =Image Data of 「English」				
	L L	Button Image Data #8 =Image Data of 「French」				
	Γ	Button Image Data #9 =Image Data of 「Top」				

DOCKET NO.: 8048-1135
INVENTOR: NOBLYUKI TAKAKUWA, ET AL.
FILING DATE: DECEMBER 29, 2005
TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD,
INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION RECORDING/REPRODUCTION DEVICE AND METHOD,
COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL

23/34

FIG. 23

P List Info. table

	Field Name		Description Content	
	Plist General Info).	P list size, total P list quantity, etc.	
	P List Pointer	P list #1 Pointer		P list #1 Info. Storage Address
	table	P list #2 Pointer		P list #2 Info. Storage Address
		P list #1 General Info.		Item total quantity which
				constitutes P list #1=2, Sub-Item
	P list#1 Info. table			total quantity = 1 , Other Info.
\mathcal{L}		P list#1	Item#1	Relevant AU number in AU table in
		Item Info. table	Info.	Object Info. File, etc.
			Item#2	Relevant AU number in AU table in
			Info.	Object Info. File, etc.
		P list#1	Sub·Item#	Type=menu during playback
		Sub-Item Info.	1 Info.	content, Relevant AU number in
\		table		Object Info. File, etc
\		Other Info.		Others
V		P list #2 General Info.		Item total quantity which
	7			constitutes P list #2=1, Sub-Item
	`			total quantity= 1 , Other Info.
	P list #2 Info. table	P list #2	Item#1	Relevant AU number in AU table in
		Item Info. table	Info.	Object Info. File, etc.
		P list#2	Sub-Item#	Type=menu during playback
ĺ		Sub-Item Info.	1 Info.	content, Relevant AU number in
		table		Object Info. File, etc
		Other Info.		Others

DOCKET NO.: 8048-1135 INVENTOR: NOBLYUKI TAKAKUWA, ET AL. FILING DATE: DECEMBER 29, 2005

TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD, INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION RECORDING/REPRODUCTION DEVICE AND METHOD, COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL

24/34

FIG. 24

1 3 1 **AU Table** Field Name Content AU table General Info. Quantity of AUs, Pointer to each AU, etc. AU #1 PU#1 ES_Table Index #1 Stream information table Index No. = 1 ES_Table Index #2 2 1 3 2 ES_Table Index #1 3 Packet No. Discontinuity Info. 302I Packet No. Discontinuity Start Point, Off set Value, etc. Other Info. Information table Position, etc. 1 3 4 Information table Field Name Content Quantity of Indexes, etc. General Info. Index #1 ES_PID value = 100 Type = Background Stream Information Table Address Info. Index #2 $ES_PID = 110$ 134d Type = Button Data Page Attribute = DTS Support Address Info Index #3 $ES_PID = 111$ Type = Button Data Page Attribute = No DTS Support Address Info Other Info. Other Info.

TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD,
INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION REPRODUCTION DEVICE AND METHOD,
COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL

FIG. 25

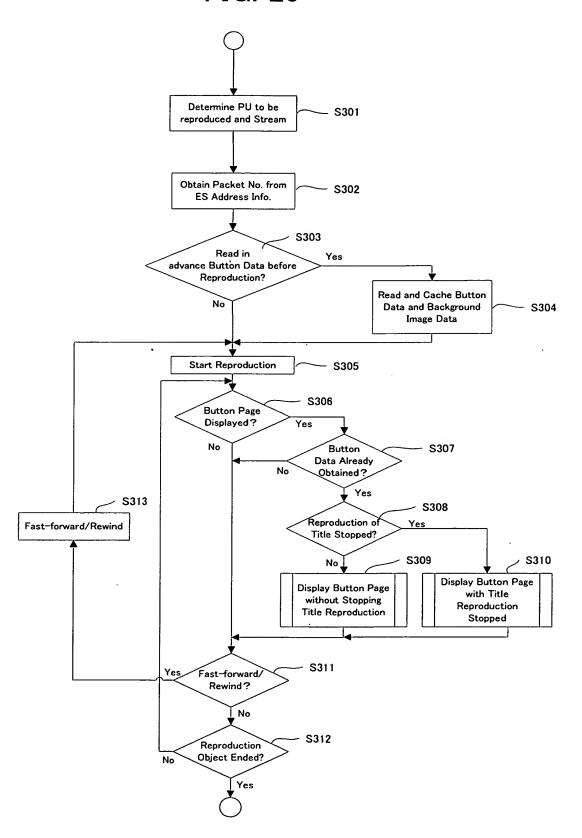
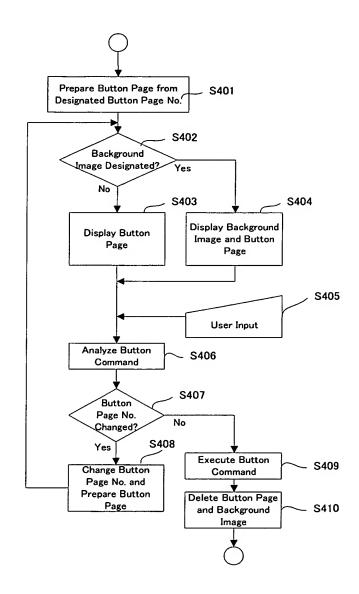
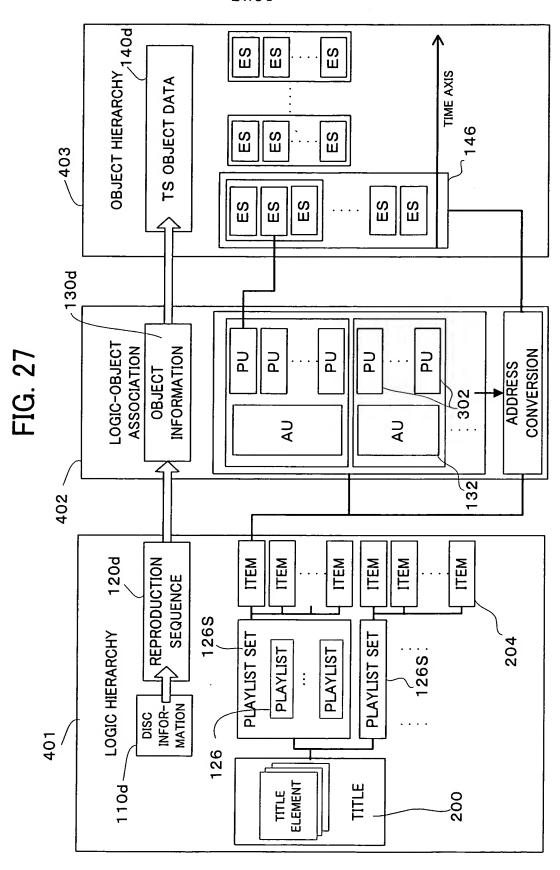


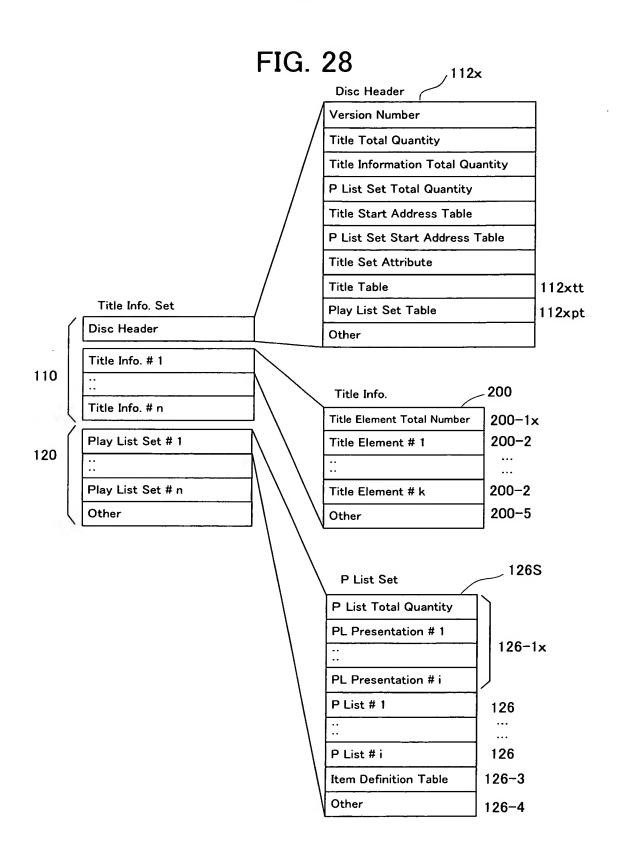
FIG. 26



DOCKET NO.: 8048-1135
INVENTOR: NOBLYUKI TAKAKUWA, ET AL.
FILING DATE: DECEMBER 29, 2005
TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD,
INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION RECORDING/REPRODUCTION DEVICE AND METHOD,
COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL



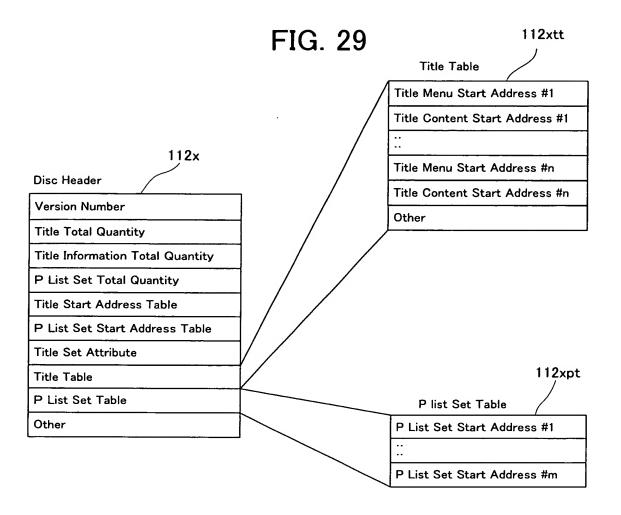
TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD, INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION REPRODUCTION DEVICE AND METHOD, COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL



DOCKET NO.: 8048-1135 INVENTOR: NOBUYUKI TAKAKUWA, ET AL. FILING DATE: DECEMBER 29, 2005

FILING DATE: DECEMBER 29, 2003

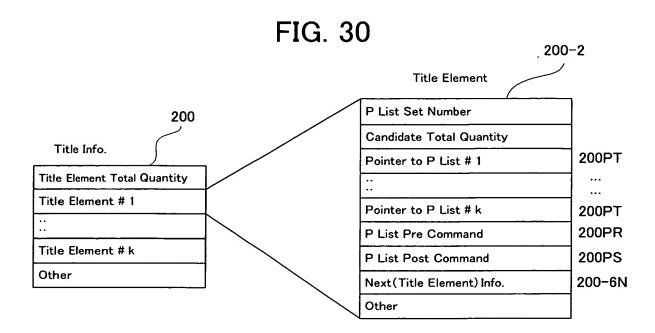
TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD,
INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION RECORDING/REPRODUCTION DEVICE AND METHOD,
COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL



DOCKET NO.: 8048-1135 INVENTOR: NOBUYUKI TAKAKUWA, ET AL. FILING DATE: DECEMBER 29, 2005

FILING LIATE: DECEMBER 29, 2005

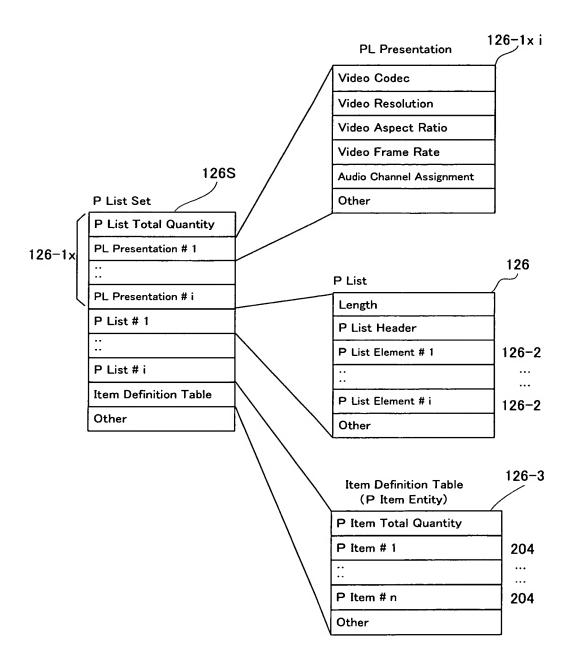
TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD,
INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION RECORDING/REPRODUCTION DEVICE AND METHOD,
COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL



FILING DATE: DECEMBER 29, 2005

TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD,
INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION RECORDING/REPRODUCTION DEVICE AND METHOD,
COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL

FIG. 31



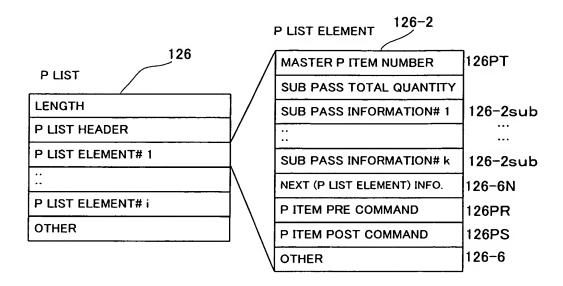
DOCKET NO.: 8048-1135

INVENTOR: NOBUYUKI TAKAKUWA, ET AL.
FILING DATE: DECEMBER 29, 2005

TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD,
INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION RECORDING/REPRODUCTION DEVICE AND METHOD,
COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL

32/34

FIG. 32



DOCKET NO.: 8048-1135 INVENTOR: NOBUYUKI TAKAKUWA, ET AL. FILING DATE: DECEMBER 29, 2005

TITLE: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING DEVICE AND METHOD,
INFORMATION REPRODUCTION DEVICE AND METHOD, INFORMATION RECORDING/REPRODUCTION DEVICE AND METHOD,
COMPUTER PROGRAM FOR CONTROLLING RECORDING OR REPRODUCTION, AND DATA STRUCTURE CONTAINING CONTROL SIGNAL

33/34

FIG. 33

